

APR 21 1994

ENGINEERING CHANGE NOTICE

1. ECN 198009

Page 1 of 2

Proj.
ECN

2. ECN Category (mark one)	Supplemental <input type="checkbox"/>	Change ECN <input type="checkbox"/>	Supersededure <input type="checkbox"/>
Cancel/Void <input type="checkbox"/>	Direct Revision <input checked="" type="checkbox"/>	Temporary <input type="checkbox"/>	Discovery <input type="checkbox"/>

3. Originator's Name, Organization, MSIN, and Telephone No. L.C. Hulstrom 300 Area Source Investigation & Remediation Projects H6-03, 376-4034	4. Date April 20, 1994
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5. Project Title/No./Work Order No. Data Validation Summary Report - 300-FF-5 Operable Unit Round 6 Groundwater	6. Bldg./Sys./Fac. No. N/A	7. Impact Level N/A
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8. Document Number Affected (include rev. and sheet no.) WHC-SD-EN-TI-173, Rev. 0	9. Related ECN No(s).	10. Related PO No.
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11a. Modification Work <input type="checkbox"/> Yes (fill out Blk. 11b) <input checked="" type="checkbox"/> No (NA Blks. 11b, 11c, 11d)	11b. Work Package Doc. No. NA	11c. Complete Installation Work NA _____ Cog. Engineer Signature & Date	11d. Complete Restoration (Temp. ECN only) NA _____ Cog. Engineer Signature & Date
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12. Description of Change
A minor modification to Sheet 1 of 3 for Table 2-1 (methylene chloride value for sample B095J5 was changed from 2J to 10U), plus a realignment of values for TMA Norcal Case N3-09-124-7264 in Table 4-1 beginning with sample number B095L8.



13a. Justification (mark one)	Criteria Change <input type="checkbox"/>	Environmental <input type="checkbox"/>	Facilitate Const. <input type="checkbox"/>
Design Error/Omission <input type="checkbox"/>	Design Improvement <input type="checkbox"/>	As-Found <input checked="" type="checkbox"/>	Const. Error/Omission <input type="checkbox"/>

13b. Justification Details
Additional review by WHC and subcontractor staff during preparation of electronic data qualifiers identified two tables that needed minor revision.

14. Distribution (include name, MSIN, and no. of copies)
L. C. Hulstrom (H6-03, 1 copy), EDMC (H6-08, 2 copies),
Central Files (L8-04, 2 copies), ERC (H6-07, 1 copy)
H6-07

RELEASE STAMP

OFFICIAL RELEASE **11**
BY WHC
DATE APR 21 1994

Station # 12

9413207.2156

ENGINEERING CHANGE NOTICE

Page 2 of 2

1. ECN (use no. from pg. 1)

198009

15. Design Verification Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	16. Cost Impact <table border="1"> <tr> <th colspan="2">ENGINEERING</th> <th colspan="2">CONSTRUCTION</th> </tr> <tr> <td>Additional <input type="checkbox"/> \$</td> <td>Additional <input type="checkbox"/> \$</td> <td>Additional <input type="checkbox"/> \$</td> <td>Additional <input type="checkbox"/> \$</td> </tr> <tr> <td>Savings <input type="checkbox"/> \$</td> <td>Savings <input type="checkbox"/> \$</td> <td>Savings <input type="checkbox"/> \$</td> <td>Savings <input type="checkbox"/> \$</td> </tr> </table>	ENGINEERING		CONSTRUCTION		Additional <input type="checkbox"/> \$	Additional <input type="checkbox"/> \$	Additional <input type="checkbox"/> \$	Additional <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$	17. Schedule Impact (days) Improvement <input type="checkbox"/> Delay <input type="checkbox"/>
ENGINEERING		CONSTRUCTION												
Additional <input type="checkbox"/> \$	Additional <input type="checkbox"/> \$	Additional <input type="checkbox"/> \$	Additional <input type="checkbox"/> \$											
Savings <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$											

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD <input type="checkbox"/>	Seismic/Stress Analysis <input type="checkbox"/>	Tank Calibration Manual <input type="checkbox"/>
Functional Design Criteria <input type="checkbox"/>	Stress/Design Report <input type="checkbox"/>	Health Physics Procedure <input type="checkbox"/>
Operating Specification <input type="checkbox"/>	Interface Control Drawing <input type="checkbox"/>	Spares Multiple Unit Listing <input type="checkbox"/>
Criticality Specification <input type="checkbox"/>	Calibration Procedure <input type="checkbox"/>	Test Procedures/Specification <input type="checkbox"/>
Conceptual Design Report <input type="checkbox"/>	Installation Procedure <input type="checkbox"/>	Component Index <input type="checkbox"/>
Equipment Spec. <input type="checkbox"/>	Maintenance Procedure <input type="checkbox"/>	ASME Coded Item <input type="checkbox"/>
Const. Spec. <input type="checkbox"/>	Engineering Procedure <input type="checkbox"/>	Human Factor Consideration <input type="checkbox"/>
Procurement Spec. <input type="checkbox"/>	Operating Instruction <input type="checkbox"/>	Computer Software <input type="checkbox"/>
Vendor Information <input type="checkbox"/>	Operating Procedure <input type="checkbox"/>	Electric Circuit Schedule <input type="checkbox"/>
OM Manual <input type="checkbox"/>	Operational Safety Requirement <input type="checkbox"/>	ICRS Procedure <input type="checkbox"/>
FSAR/SAR <input type="checkbox"/>	IEFD Drawing <input type="checkbox"/>	Process Control Manual/Plan <input type="checkbox"/>
Safety Equipment List <input type="checkbox"/>	Cell Arrangement Drawing <input type="checkbox"/>	Process Flow Chart <input type="checkbox"/>
Radiation Work Permit <input type="checkbox"/>	Essential Material Specification <input type="checkbox"/>	Purchase Requisition <input type="checkbox"/>
Environmental Impact Statement <input type="checkbox"/>	Fac. Proc. Samp. Schedule <input type="checkbox"/>	<input type="checkbox"/>
Environmental Report <input checked="" type="checkbox"/>	Inspection Plan <input type="checkbox"/>	<input type="checkbox"/>
Environmental Permit <input type="checkbox"/>	Inventory Adjustment Request <input type="checkbox"/>	<input type="checkbox"/>

19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

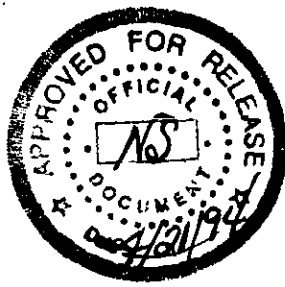
Document Number/Revision	Document Number/Revision	Document Number/Revision
NA		

20. Approvals

Signature	Date	Signature	Date
OPERATIONS AND ENGINEERING		ARCHITECT-ENGINEER	
Cog./Project Engineer <i>L.C. Hulstrom</i>	<u>4/20/94</u>	PE	
Cog./Project Engr. Mgr. <i>R.A. Carlson</i>	<u>4/20/94</u>	QA	
QA		Safety	
Safety		Design	
Security		Other	
Proj. Prog./Dept. Mgr.			
Def. React. Div.			
Chem. Proc. Div.			
Def. Wst. Mgmt. Div.			
Adv. React. Dev. Div.			
Proj. Dept.			
Environ. Div.			
IRM Dept.			
Facility Rep. (Ops.)			
Other			

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Date Received: 4-21-94/OS		INFORMATION RELEASE REQUEST		Reference: WHC-CM-3-4	
Complete for all Types of Release					
Purpose			ID Number (include revision, volume, etc.) WHC-SD-EN-TI-173, Rev. 0-A		
<input type="checkbox"/> Speech or Presentation <input type="checkbox"/> Full Paper (Check only one suffix) <input type="checkbox"/> Summary <input type="checkbox"/> Abstract <input type="checkbox"/> Visual Aid <input type="checkbox"/> Speakers Bureau <input type="checkbox"/> Poster Session <input type="checkbox"/> Videotape			<input type="checkbox"/> Reference <input checked="" type="checkbox"/> Technical Report <input type="checkbox"/> Thesis or Dissertation <input type="checkbox"/> Manual <input type="checkbox"/> Brochure/Flier <input type="checkbox"/> Software/Database <input type="checkbox"/> Controlled Document <input type="checkbox"/> Other		
			List attachments. NA		
			Date Release Required April 25, 1994		
Title Data Validation Summary Report - 300-FF-5 Operable Unit - Round 6 Groundwater				Unclassified Category UC- N/A	
Impact Level N/A					
New or novel (patentable) subject matter? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has disclosure been submitted by WHC or other company? <input type="checkbox"/> No <input type="checkbox"/> Yes Disclosure No(s).			Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)		
Copyrights? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has written permission been granted? <input type="checkbox"/> No <input type="checkbox"/> Yes (Attach Permission)			Trademarks? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)		
Complete for Speech or Presentation					
Title of Conference or Meeting NA			Group or Society Sponsoring NA		
Date(s) of Conference or Meeting NA		City/State NA		Will proceedings be published? <input type="checkbox"/> Yes <input type="checkbox"/> No Will material be handed out? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Title of Journal NA					
CHECKLIST FOR SIGNATORIES					
Review Required per WHC-CM-3-4		Yes No		Reviewer - Signature Indicates Approval	
				Name (printed) Signature Date	
Classification/Unclassified Controlled Nuclear Information		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		S.W. Berglin <i>[Signature]</i> 4/21/94	
Patent - General Counsel		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		S.W. Berglin <i>[Signature]</i> 4/21/94	
Legal - General Counsel		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		S.W. Berglin <i>[Signature]</i> 4/21/94	
Applied Technology/Export Controlled Information or International Program		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
WHC Program/Project		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Communications		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
RL Program/Project		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		R. G. Mcleod <i>[Signature]</i> 4/20/94	
Publication Services		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		L. Hermann <i>[Signature]</i> 4/21/94	
Other Program/Project		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Information conforms to all applicable requirements. The above information is certified to be correct.					
References Available to Intended Audience <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Transmit to DOE-HQ/Office of Scientific and Technical Information <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Author/Requestor (Printed/Signature) L.C. Hulstrom <i>[Signature]</i> 4/20/94				INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP Stamp is required before release. Release is contingent upon resolution of mandatory comments. 	
Intended Audience <input type="checkbox"/> Internal <input type="checkbox"/> Sponsor <input checked="" type="checkbox"/> External Responsible Manager (Printed/Signature) R.A. Carlson <i>[Signature]</i> 4/20/94				Date Cancelled Date Disapproved	

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SUPPORTING DOCUMENT		1. Total Pages 29
2. Title Data Validation Summary Report - 300-FF-5 Operable Unit - Round 6 Groundwater	3. Number WHC-SD-EN-TI-173	4. Rev No. 0-A
5. Key Words TMA VOA, Isotopic and Total Uranium analyses - Case #'s A309082, A309049, A310001, A309074, N3-09-066-7245, N3-09-124-7264, and N3-09-151-7268 Weston VOA, Isotopic and Total Uranium analyses - Case #'s 9309L093, 9309L018.	6. Author Name: L. C. Hulstrom <i>LC Hulstrom</i> 4/20/94 Signature Organization/Charge Code 8C300/P25AE	
<p style="text-align: center;">APPROVED FOR PUBLIC RELEASE 4/21/94 N. Solis</p> <p>7. Abstract Hulstrom, L. C., 1994, Data Validation Summary Report - 300-FF-5 Operable Unit - Round 6 Groundwater, WHC-SD-EN-TI-173, Rev. 0, prepared by ENSERCH Environmental (formerly Ebasco Environmental) and Hart Crowser, for Westinghouse Hanford Company, Richland, Washington.</p>		
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9. Impact Level N/A		

RECORD OF REVISION

(1) Document Number

WHC-SD-EN-TI-173

Page 1

(2) Title

Data Validation Summary Report 300-FF-5 Operable Unit Round 6 Groundwater

CHANGE CONTROL RECORD

(3) Revision	(4) Description of Change - Replace, Add, and Delete Pages	Authorized for Release		
		(5) Cog. Engr.	(6) Cog. Mgr.	Date
0	Initial release EDT 064274, 3/23/94	L.C. Hulstrom	R.A. Carlson	
0-A RS	Replace Sheet 1 of 3 for Table 2-1 (page 2-8) and Table 4-1 with revised tables. Per ECN 198009	<i>LC Hulstrom</i> 4/20/94 L.C. Hulstrom	<i>RACARSEN</i> 4/20/94 R.A. Carlson	

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**Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
Round 6 Groundwater Volatile Organic Compounds
Analysis and Qualifier Summary**

Sheet 1 of 3

Sample No.	B095J5	B095J6	B095K6	B095L9	B095L0*	B095M4	B095M9	B095N1	B095K0*
300-FF-5 Compounds of Concern:									
	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$
Methylene Chloride	10 U	10 U	10 U	10 U	8 J	1 J	1 J	10 U	10 U
1,2-Dichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	1 J	10 U	2 J	4 J	4 J	10 U	10 U	10 U	10 U
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Additional Compounds Originally Detected in Sample:									
Acetone	NR	9 J	NR	10 U	NR	NR	NR	NR	NR
Chloroform	11	NR	NR	5 J	10	NR	NR	NR	NR

NR — not reported as detected

* — fully validated sample

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